Broadband Router
Home/Office Gateway

User Manual

（English Version）

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1. Introduction

Thank you for choosing the Broadband Router！The Multifunctional Broadband Router is specially designed for small enterprise、office and SOHO to access Internet，It is a kind of

with strong functions, high performance and easy configuration router.

Please read the manual first earnestly before installation!

1.1 Packing

When you open the wrapper box please check the following：

- Broadband Router
- Power
- User Manual
- Maintain card

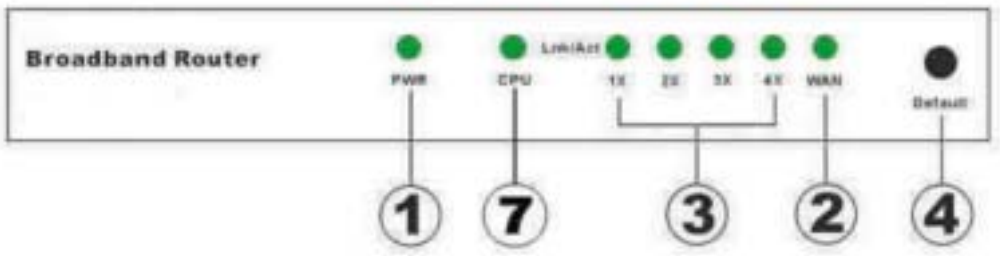
2. Product

2.1 Description

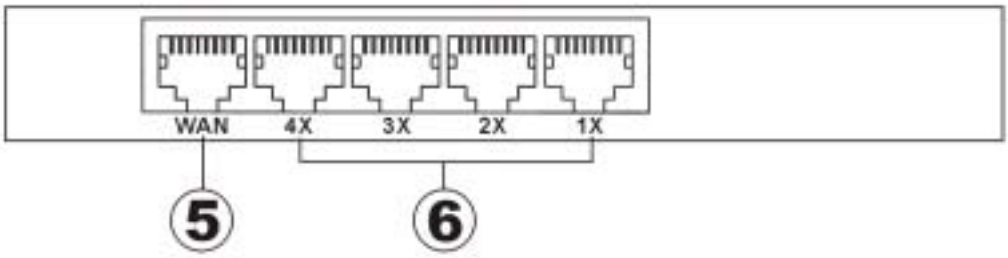
The Router provides many management functions, including system, DHCP server, virtual server, DMZ host, firewall, and static routing table. Share data and Internet access while protecting your computer from hackers. Supports DDNS (Dynamic Domain Name Server). Supports UPNP and VPN pass-through. Advanced firewall & parental control. Build-in 4-port Switch. The multifunctional Broadband Router provides flexible access control, allowing children or stuff only browse the certain web sites. The router is also a smart helper. It connects to Internet automatically on demand and disconnects when idle to save network fee. It's easy-configurated. Quick Setup Wizard is supported and friendly help pages provided for every step also.

2.2 Appearance

Front Panel：



Backboard：



Explain：

Number	Mark	Name
1	PWR	Power LED
2	WAN	WAN Port LED
3	1/2/3/4	Four LAN Ports LED
4	DEFAULT	Renew factory default
5	WAN	WAN Port
6	Four LAN PORTS	10/100M Auto-adapt Ethernet Port
7	CPU	CPU LED

LED Explain：

Status	Dead	Bright	Wink
PWR	Turnoff	Switch on	No
CPU	Abnormality	In gear	No
LNK/ACT	Disconnection	In gear	Data Transmitted

2.3 Summarization

2.3.1 Feature

- Comply with IEEE802.3Ethernet and IEEE802.3u Fast Ethernet Standards.
- 1 WAN port, 4 LAN ports, 10/100M Auto-Negotiation,Support Auto MDI/MDIX
- Broadband Share. Support xDSL/Cable or Broadband Ethernet Access, realize multi PCs share the Internet**.**

- Support PPPOE、Dynamic IP（DHCP Client）、PPTP and Static IP.
- NAT Management
- Build-in DHCP server supporting Static IP address distributing.
- Support Virtual Server
- Support UPNP
- Support DMZ host
- Build-in firewall、support IP Filter、Domain Name Filter and MAC Address Filter
- Prevent DoS attack, Virus Auto-Seclusion
- Support System Time Synchronization
- Support Time Management
- Support Dynamic DNS
- Support Static Router
- Support Remote and Web Management
- Support Flow Stat.
- Support firmware upgrade

2.3.2 Standard

- Network Protocol：CSMA/CD、PPPoE、PPP、IP、ARP、DHCP、TCP、UDP、HTTP、FTP、DNS、NTP
- Routing Protocol：RIP1 and RIP2
- Dimension：159mm(Length)*100mm(Width)*28mm(Height)
- Weight：350g
- Operating Temperature：0° to 50° C
- Operating Humidity: 20% to 95 % non-condensing
- Input Power：5 W

2.3.3 Spotlight

- Connection Auto-adapt

  The Router can automatically sense the connection mode and lead you to the wizard

quickly. In addition, it also cans automatically connecting on demand and disconnecting when idle.

- NAT

  The Router ensures multi-PCs to high-speed surf Internet and share data by a ADSL/Cable Modem line. NAT can prevent the direct access from external host to internal host and protect your LAN from hacker.but if you want to access LAN from external to internal you can set up port mapping such as virtual server, DMZ and UPNP.

- Firewall

  In fact there is an abundance of web sites with an adult theme and it's very easy for a child to accidentally access one of these sites.Firewall technology provides parents with the additional challenge of protecting their family from pornographic、hate and other objectionable content.The firewall such as MAC Filter、URL Filter and Access control base on application、port、protocol and time.

- Convergence Management

  It is easy to setup and manage the Router. Supporting remote management; Flow stat. Show current NAT connection number、upload or download speed and system running time.

3. Hardware Installation

3.1 System Requirements

- Broadband Internet service（xDSL Modem\Cable Modem or Ethernet）
- A modem with RJ45 linker
- Network card and reticle
- TCP/IP protocol
- INTERNET EXPLORER5.0 or above it

3.2 Notice

- Holding the Router level
- Keep from away the pyrotoxin
- Don't lay the Router too duty or too wet place

- Temperature：0ºC ~ 40ºC
- Humidity：5% ~ 90%RH, Non-Condensing

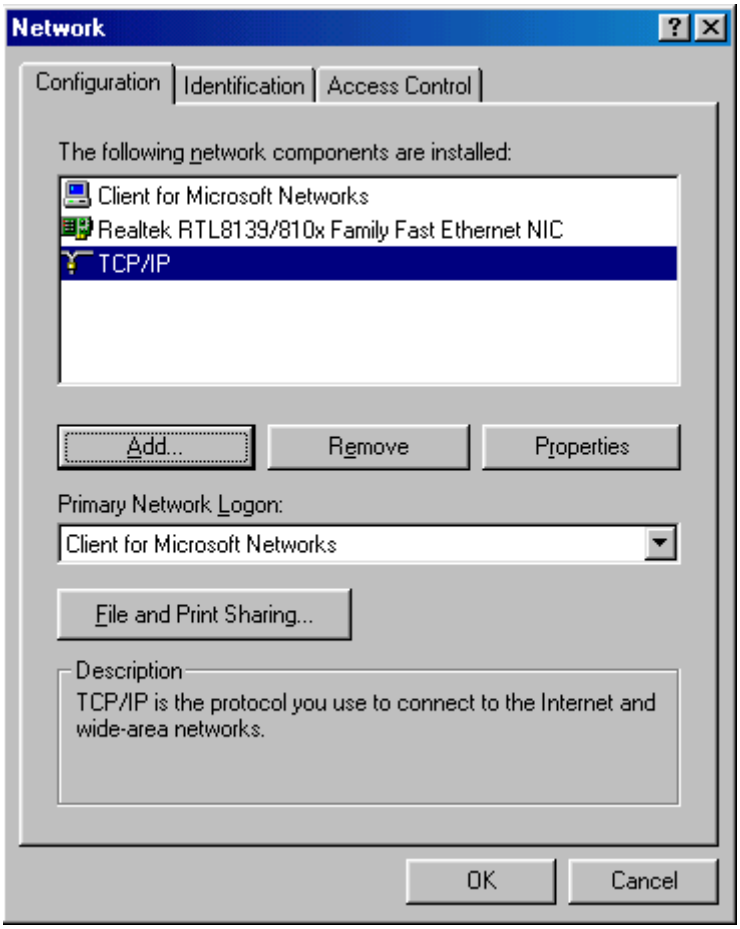
3.3 Installation

- Connect the power adapter to Broadband Router's AC power adapter jack
- Connect Broadband Router to any network computer (LAN)
- Connect Broadband Router to the ADSL/Cable Modem (WAN)
- Check：PWR LED should be always on

3.4 PC Setting

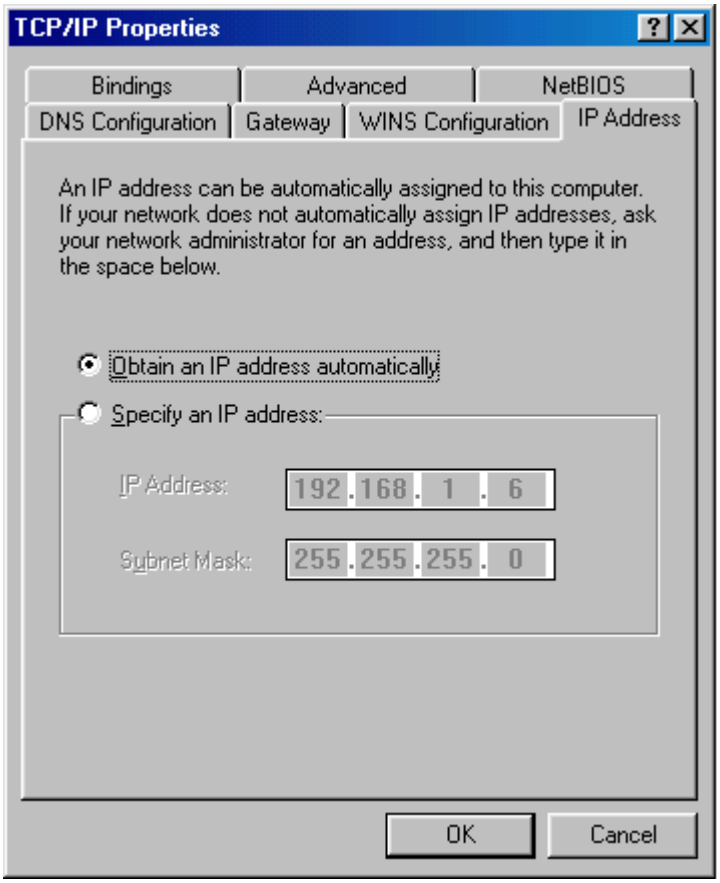
- For Windows 98/Me

1. Click "Start"→"Setting"→"Control Panel"
2. Double click "Network" icon
3. Select the TCP/IP line that has been associated to your network card in the configuration tab of the Network windows.



4. Click on the "Properties" button Click the "IP Address" tab,

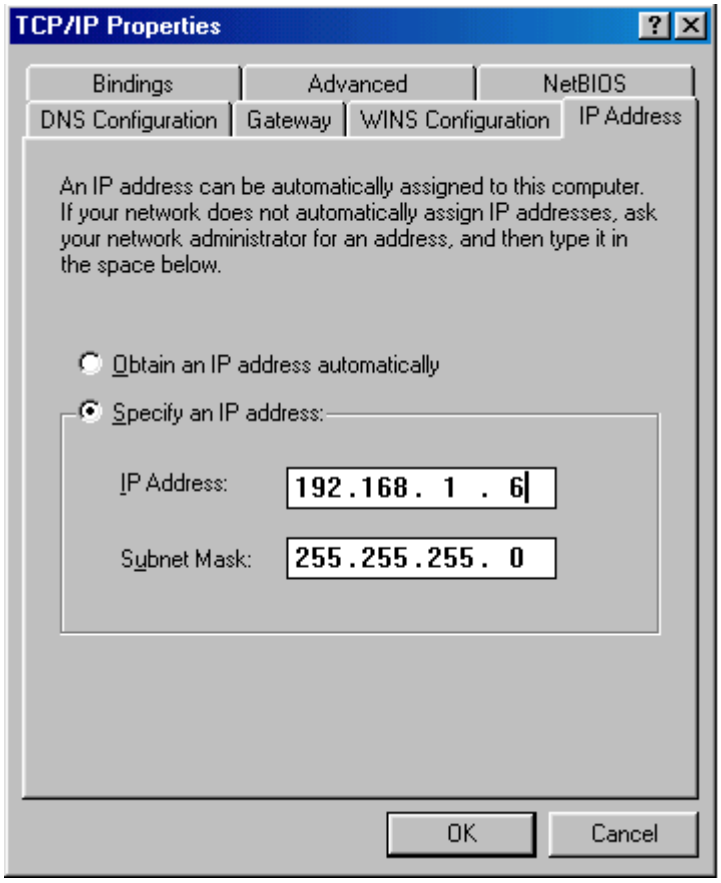
- For Obtain an IP automatically



1) Check “Obtain an IP address automatically”

2) Click “OK” button then finish of setting.

- For Specify IP address



1) Check “Specify an IP address”

2) IP Address: 192.168.1.X（X:2~254）

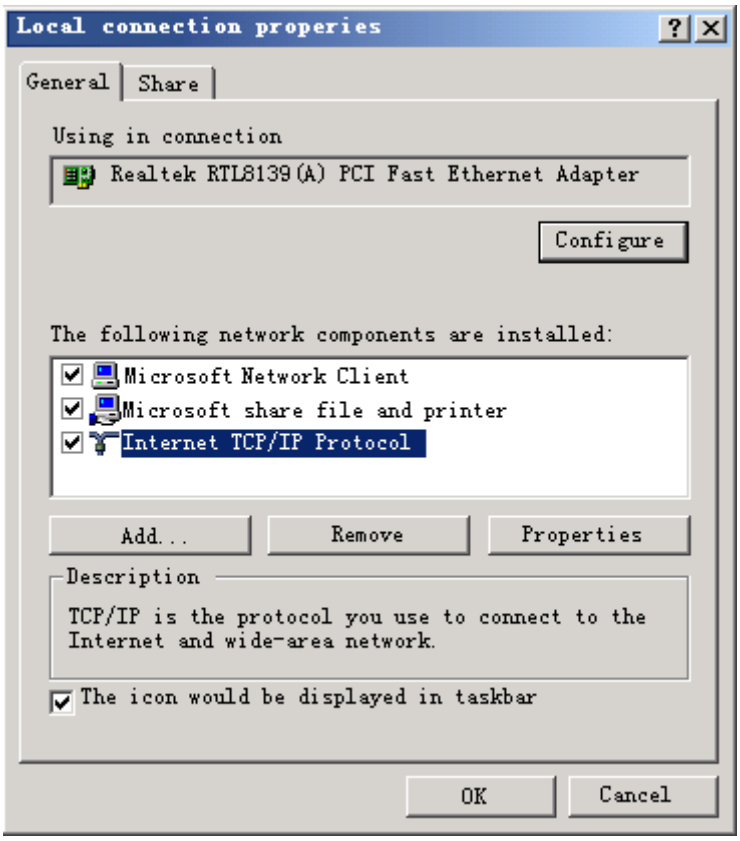
Subnet Mask：255.255.255.0

3) Click “OK” button then finish of setting

5. Click the “Gateway” tab; clear all of the gateway setting, Click on the “OK”button.

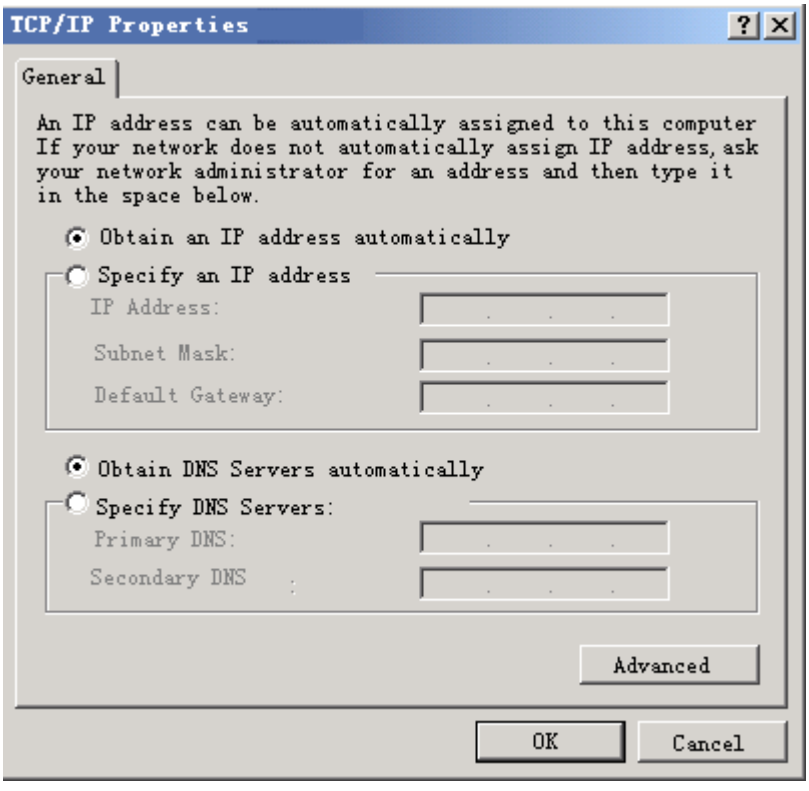
- For Windows 2000/XP/Server 2003

6. Click “Start”→”Setting”→”Control Panel”
7. Double click “Network” icon
8. Select “TCP/IP” line that has been associated to your network card in the configuration tab of the Network windows.



9. Click “properties” button.

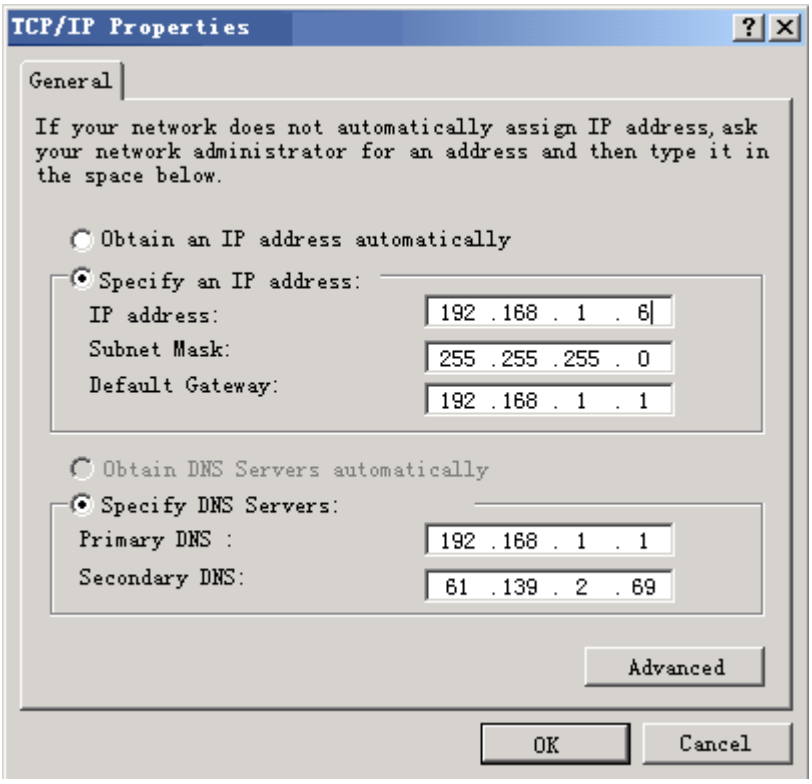
- For Obtain IP automatically


TCP/IP Properties
General
An IP address can be automatically assigned to this computer If your network does not automatically assign IP address, ask your network administrator for an address and then type it in the space below.
Obtain an IP address automatically
Specify an IP address
IP Address:
Subnet Mask:
Default Gateway:
Obtain DNS Servers automatically
Specify DNS Servers:
Primary DNS:
Secondary DNS
Advanced
OK
Cancel

1) Check “Obtain an IP address automatically” and “Obtain DNS Servers automatically”

2) Click “OK” button then finish of setting.

- For Specify an IP address


TCP/IP Properties
General
If your network does not automatically assign IP address, ask your network administrator for an address and then type it in the space below.
Obtain an IP address automatically
Specify an IP address:
IP address:
192 .168 . 1 . 6
Subnet Mask:
255 .255 .255 . 0
Default Gateway:
192 .168 . 1 . 1
Obtain DNS Servers automatically
Specify DNS Servers:
Primary DNS :
192 .168 . 1 . 1
Secondary DNS:
61 .139 . 2 . 69
Advanced
OK
Cancel

1) Select the following IP address：

IP address：192.168.1.X（X:2~254）

Subnet Mask：255.255.255.0

Default Gateway：192.168.1.1

2) Use the following DNS：

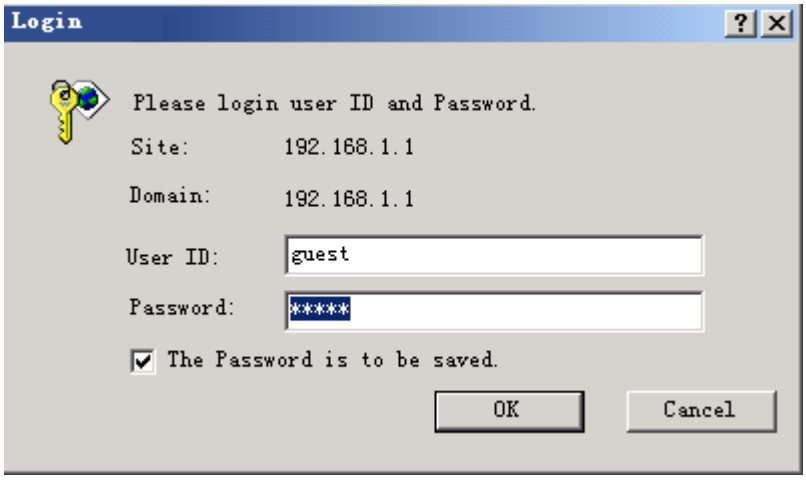
Primary DNS：192.168.1.1

Secondary DNS：ISP provides the Secondary DNS

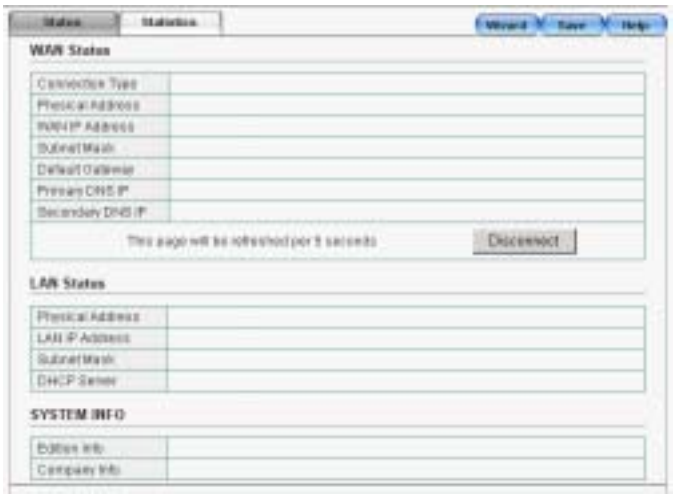
3) Click “OK”button then finish of setting.

4. Connection Guide

(1) Activate your browser, then type this Router’s IP address (Default: 192.168.1.1) in the Location (for IE) or Address field and press Enter, Key in the system user name (the factory default setting is “guest”) and system password (the factory default setting is “guest”) in the system field and click on the login in button.



It then enters the Broadband Router main setup menu as shown in the following figure.



(2) Select the WAN Type you use

Dynamic IP Address For Cable Modem

PPP over Ethernet For ADSL PPPoE

Static IP Address For ADSL (Fix IP Address)

(3) For PPPoE DSL setting

- Select PPPoE User (ADSL) icon

- PPPoE Account: The Account provided by the ISP for the PPPoE DSL connection
- PPPoE Password: The password provided by the ISP for the PPPoE DSL connection
- Physical Address Clone: You can choose the “Physical Address Clone “to copy the MAC address of your PC to be the MAC address of this device.
- MTU: Please setting the max value can be transmitted.
- Primary DNS: The primary DNS provided by the ISP.
- Secondary DNS: The secondary DNS provided by the ISP.

The Router provide three connection modes:

1>Connect to Internet automatically

2>Connect to Internet on demand

Auto disconnects when idle (when time out (1--30) min, the router automatically disconnect); Auto connects when sensing the request to access Internet.

3>Connect to Internet manually

Please choose one of the connection modes

Click”Apply”button then finish of setting

(4) For Cable Modem Setting (DHCP Client)

- Select Dynamic IP User icon

- Physical Address Clone: You can choose the “Physical Address Clone “to copy the MAC address of your PC to be the MAC address of this device.
- MTU: Please setting the max value can be transmitted.
- Primary DNS: The primary DNS provided by the ISP.
- Secondary DNS: The secondary DNS provided by the ISP.
- Click”Apply”button then finish of setting

(5) For ADSL setting (Static IP)

- Select Static IP User icon

- WAN IP Address: The IP Address provided by the ISP.
- Subnet Mask: The Subnet Mask provided by the ISP.
- Default Gateway: The Default Gateway provided by the ISP.
- Primary DNS: The primary DNS provided by the ISP.
- Secondary DNS: The secondary DNS provided by the ISP.
- Physical Address Clone: You can choose the “Physical Address Clone “to copy the MAC address of your PC to be the MAC address of this device.
- MTU: Please setting the max value can be transmitted.
- Click”Apply”button then finish of setting.

(6) For LAN setting

- Click “LAN Setup” button.

- System IP Address: Assign the private IP you want.
- DHCP Server: Check DHCP Sever on.
- DHCP IP Pool: Setting the range of IP to be allocated.
- Click “Apply” button then finish of setting.

5. Function Setting

5.1 Routing

The Broadband Router support routing management

You can assign 6 Static Routing rules.

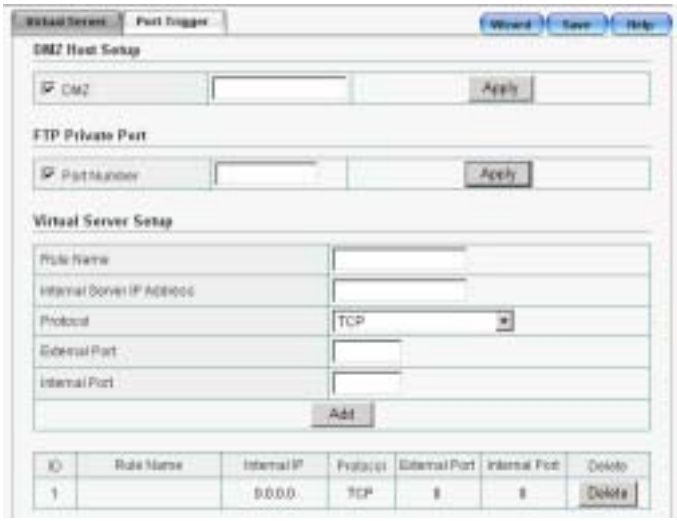
- Type: Chose the type of routing entry to define.
- NET: Chose it when target is a network.
- Host: Chose it when target is a host.
- Target: Enter an host IP address or network address for the routing entry.
- Mask: Enter the Subnet Mask if the type of routing entry is a NET.
- Gateway: Enter the gateway IP address for the target network or host.
- Click “Add” button then finish of setting.

5.2 NAT

5.2.1 Virtual Server

After setting Virtual Server, the external IP can directly access the internal IP.

- Click “NAT”→”Virtual Server”



- DMZ Host Setup: It is the easiest way to setup the DMZ host for HTTP\FTP or Mail server. Check DMZ and enter the host IP and then press “Apply” button to setup DMZ host. All packets received WAN through undefined TCP/UDP port will be forwarded to DMZ host.
- FTP Private Setup: Check port number and enter the number and then press the “Apply” button to setup Private FTP port. FTP private port enables user to setup FTP server that is not using the standard port 21.
- Virtual Server Setup

  1> The packet received through the specified TCP/UDP port will be forwarded to specified IP host according to virtual server setup.

  2> For the rule name, you can enter whatever you want, it’s just a string.

  3> For internal PC IP address, enter the host IP address to which the packet will be forwarded.

  4>The virtual server can be set easily by setting the internal server IP address only.

  5> For predefined virtual server rule, chose a rule.

6> For protocol, chose TCP/UDP type for the packet you want to forward.

7> For external port, enter the port number to which the packet will be on WAN.

8> For internal port, enter the port number to which the packet will be forwarded on LAN.

9> Press “Add” button after enter the all fields to add the rule.

10>Check to select the rule and press “Del” to delete the rule.

5.2.2 Port Trigger

Port trigger module dynamically registers virtual server rules when any IP host generates the packet from the specified trigger protocol and port. Port trigger module use forward protocol type and port number and use the IP address of host that generates the trigger packet when it registers a rule.

- Click “NAT”→”Port Trigger”

- Rule Name: you can enter whatever you want, it’s just a string.
- Choose Trigger Protocol and input Trigger Port.
- Choose Forward Protocol and input Forward Port.
- Press "Add" button after fill the rule parameters to add the rule.
- Press "Del" button to delete a rule after select a rule.
- You can easily add the trigger rule using "Predefined Trigger Rules"

5.3 Firewall

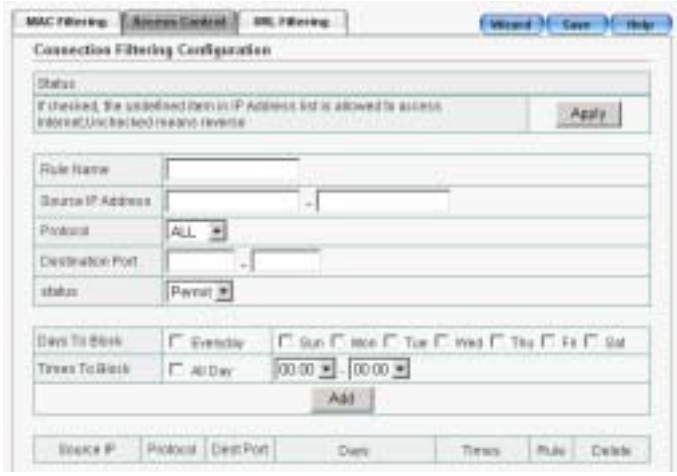
5.3.1 MAC Filter

- Click “Firewall”→”MAC Filtering”

- You can choose to turn on or turn off the configuration.
- Enter the physical address that you want to block.
- Choose the toggled physical address to be allowed or forbidden.
- Press “Del” button to delete a rule after select a rule.

5.3.2 Access Control

- Click “Firewall”→”Access Control”



- Connection Filtering: Using firewall can block the specified IP host traffic.
- Chose the undefined rule in the list to be allowed or forbidden to access Internet.
- Enter the rule name that you want, it is just only a string.
- Enter the IP address to block in source IP address field.

- Chose protocol type (TCP/UDP) and enter the port number to block.
- You can chose days to block and time to block.
- Press “Add” button to finish this configuration.
- Press “Del” button to delete a rule after select a rule.

5.3.3 URL Filter

- Click “Firewall”→”URL Filtering”

- URL Filter

  The access of the specified URL site will be blocked.

- URL Filtering Configuration

  The Status of URL filtering is showed and changed with toggle button.

  Select one of the filtering rules.

  Enter the keyword of URL which site need to be blocked.

  As example for the filtering keyword ‘sex hangame porn’ ,the site named as www.sex.com/www.hangame.com/www.porn.com will be blocked.

5.4 Dynamic DNS

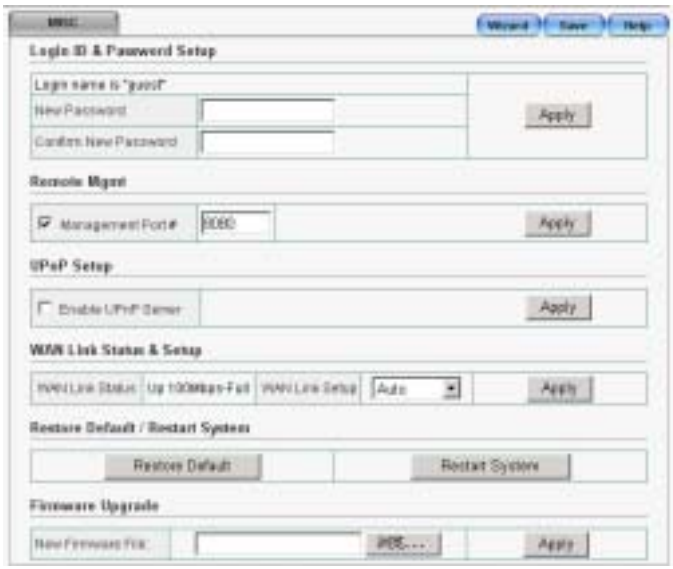
WAN IP address can be registered as URL name using Dynamic DNS.

- Register www.dyndns.org to get the user name, password and domain name that is needed to run the Dynamic DNS client.
- Enter the User ID, Password and Host Name.

- Click “Apply” button then finish of setting.

5.5 MISC

You can setup other advanced functions in MISC menu.



- Login ID & Password Setup

  With password setup to prevent the access of unknown users

  Enter new password and confirm new password the desired password and then press “Apply” button.

  User ID is fixed as “guest”.

- Remote Management

  Router can be accessed on the remote site using “Remote Mgnt” setup.

  Check the “Management Port#” and enter the port number and then press ”Apply” button to enable remote access.

- UPNP Setup

  You can enable the UPNP Server to be operated.

- System Time

  Chose the timeserver and the time zone for the system time.

- Restore Default and Restart System

  Press “Restore Default ”button to reset router to the factory default status

  Press “Restart System” button to reboot the router

- Firmware Upgrade

Press “Search…” button to select the new firmware.

Press “Upgrade” button to execute upgrade procedure.

Don’t power OFF the router while upgrade is proceeding.